

WHAT IS CLAIMED IS:

1. A system for communication between an object request broker and a CORBA object request broker, comprising:

5 an object request broker executing on a first system and providing inter-object communication support between the first system and a second system, the first system connected to the second system by a network; and

10 a reference object in the object request broker operable to encode outgoing communications into an Internet Inter-ORB Protocol (IIOP) format, the reference object further operable to decode incoming communications from Internet Inter-ORB Protocol (IIOP) format into a format native to the object request broker.

15 2. The system of Claim 1, further comprising a CORBA object request broker executing on the second system.

20 3. The system of Claim 1, further comprising one or more streamers coupled to the reference object, the one or more streamers corresponding in number to methods of a target object, the one or more streamers serially sending bytes of outgoing communications to the second object request broker.

25 4. The system of Claim 1, further comprising a client application on the first system.

30 5. The system of Claim 1, further comprising a target object on the second system.

6. The system of Claim 1, wherein the reference object provides a functionality of a CORBA stub without a separate CORBA stub.

7. The system of Claim 1, wherein the reference object provides a functionality of a CORBA skeleton without a separate CORBA skeleton.

5 8. The system of Claim 1, wherein a remote proxy sends the outgoing communication to the reference object.

9. The system of Claim 8, wherein the remote proxy receives the outgoing communication from an application on
10 the first system.

10. The system of Claim 1, wherein the reference object receives incoming communications from the second system.

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A2* 11. The system of Claim 1, wherein the reference object obviates CORBA stubs and CORBA skeletons used in CORBA object request brokers.

12. A method for communication between an object request broker and a CORBA object request broker, comprising:

invoking a method of a target object on a first system by an application on a second system;

forwarding the method invocation to a reference object in a second object request broker executing on the second system;

10 encoding the method invocation into Internet Inter-ORB Protocol (IIOP) format;

sending the encoded method invocation to a first object request broker executing on the first system; and

invoking the method on the target object.

15 13. The method of Claim 12, wherein sending the encoded method invocation includes:

forwarding the encoded method invocation to one of one or more streamer objects corresponding to a method invoked by the encoded method invocation; and

20 serially streaming bytes of the encoded method invocation to the first object request broker.

14. The method of Claim 12, further comprising:

25 forwarding a result of the method invocation to the first object request broker;

transmitting the result to the second object request broker executing on the second system;

receiving the result encoded in Internet Inter-ORB Protocol (IIOP) format in the reference object;

30 decoding the result into a format native to the second object request broker; and

forwarding the result to the application.

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